FACULTY OF ENGINEERING AND TECHNOLOGY

CEF 344: LAP REPORT

USER AUTHENTICATION SYSTEM

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AIMS AND OBJECTIVES

Implementing a system where users can sign up, log in and log out.

Skills learned: Setting up a database with Node.js, managing sessions, and securing passwords.

TOOLS AND MATERIALS USED

Frontend : -React

-Boostrap/css

Backend : -Node.js/express

-Mongodb

-jsonwebtoken package(jwt), cookie-parser, cors, bcryptjs,mongoose,dotenv

Vs code, chrome browser

PROCEDURE

After designing and implementing the login/signup/log out UI , it was integrated with the backend. The backend made use of jsonwebtoken package which is a token-based authentication strategy.

The cookie-parser package was used to include cookies in the response object before sending back to the browser .

Initially cors was used to facilitate sending request from the react server to the node.js server, but eventually I set up the react project to run directly on the node server.

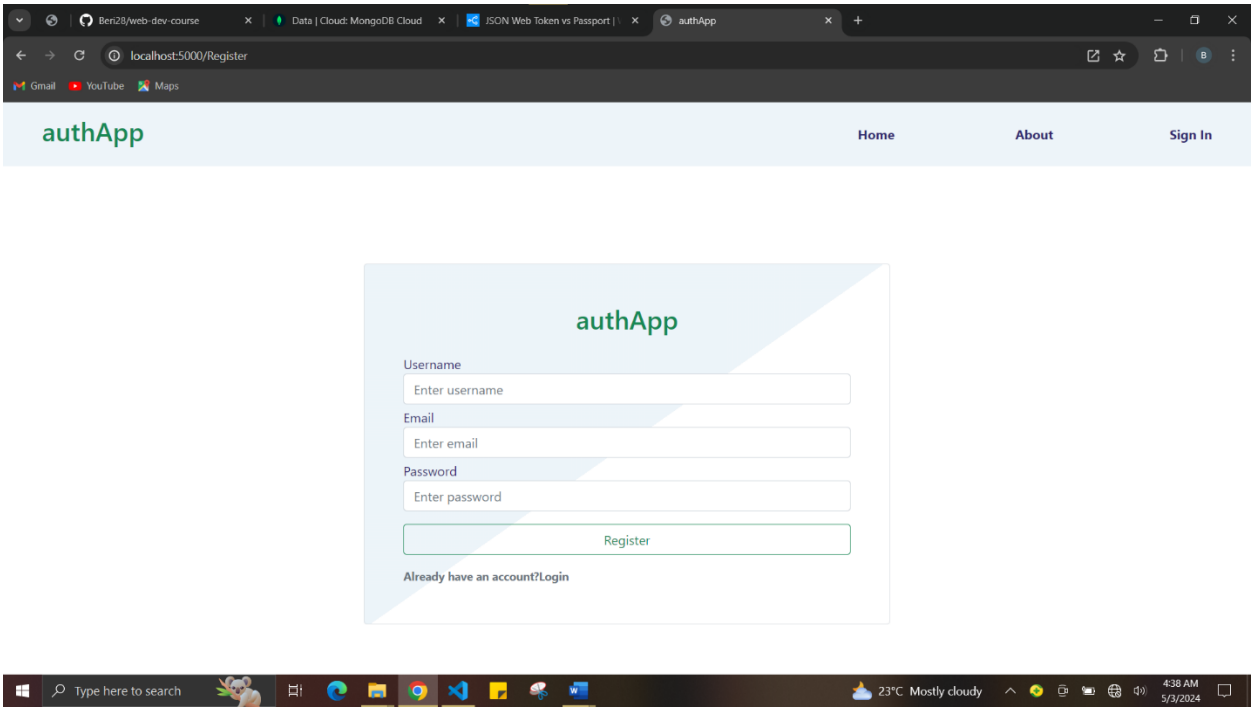
Bcryptjs package was used to hash user passwords before storing in the database and compare hashed passwords with plain text durin login.

Mongoose package was used to ease management and setting up of the mongodb database and storing user info in the database.

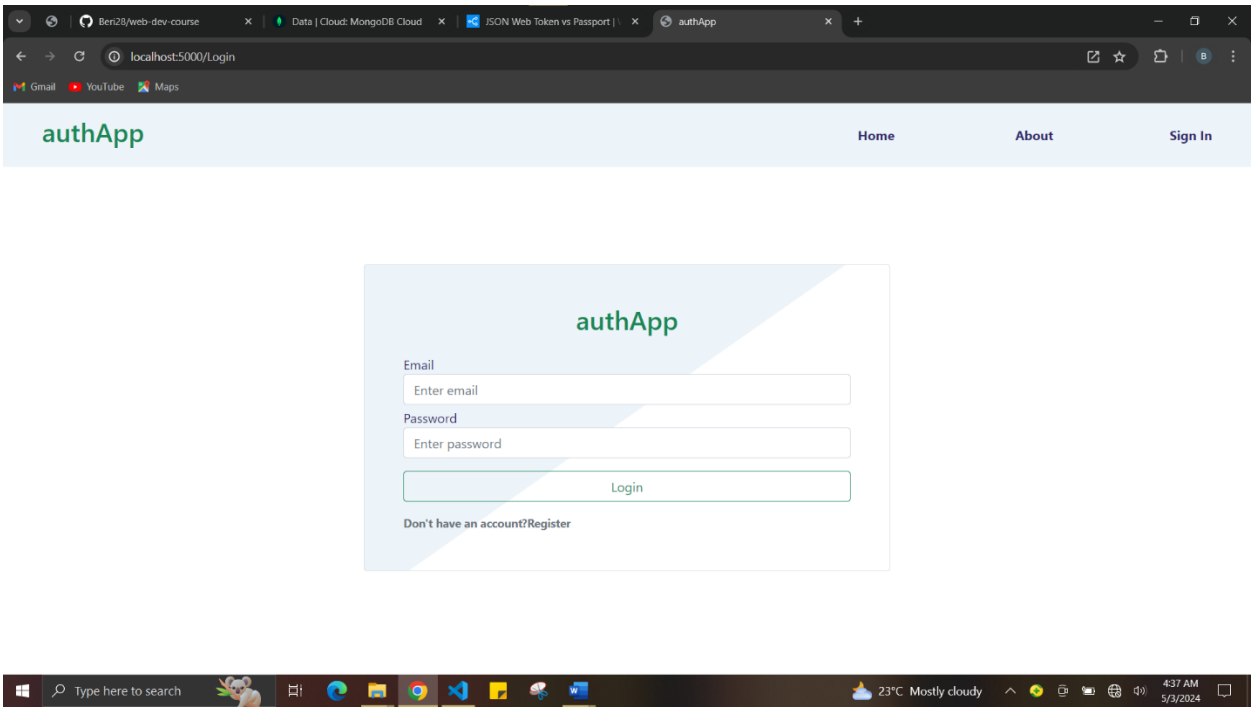
The dotenv was used to load environment variables from the .env file. The .env file included sensitive information such as mongodb server URL and cookie secret key.

Some results of my implementation can be seen below

REGISTER



LOGIN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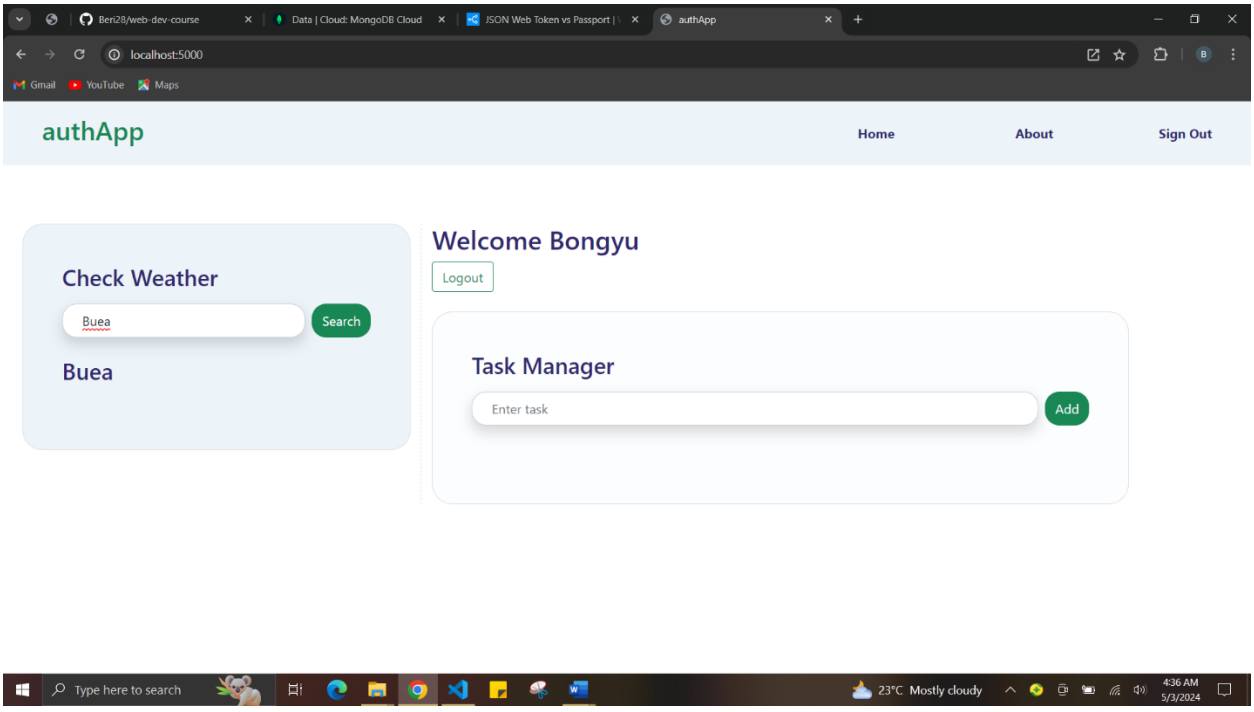
Data | Cloud: MongoDB Cloud
JSON Web Token vs Passport |
authApp
localhost:5000/Login
Gmail
YouTube
Maps
authApp
Home
About
Sign In
authApp
Email
Enter email
Password
Enter password
Login
Don't have an account?Register
Type here to search
23°C Mostly cloudy
4:37 AM
5/3/2024

LOGGED IN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Data | Cloud: MongoDB Cloud
JSON Web Token vs Passport |
authApp
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YouTube
Maps
authApp
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Welcome Bongyu
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Type here to search
23°C Mostly cloudy
4:36 AM
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